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ELI ERIC



ISTITUTO NAZIONALE DI
FISICA NUCLEARE

EPS YOUNG MINDS WORKSHOP

18-19 JUNE 2024, HERCEG NOVI, MONTENEGRO

FUSION AND PLASMA FOR ENERGY, HEALTH AND ACCELERATORS



SATELLITE EVENT AT THE

RAD
CONFERENCE

TWELFTH INTERNATIONAL CONFERENCE OF RADIATION,
NATURAL SCIENCES, MEDICINE, ENGINEERING, TECHNOLOGY AND ECOLOGY

JUNE 17-21, 2024

HUNGUEST HOTEL SUN RESORT, HERCEG NOVI, MONTENEGRO

The event is organized in collaboration with EPS, EPS-TIG, ELI ERIC (), INFN, and CA21128 "PROton BORon Nuclear Fusion: from Energy Production to Medical Applications (PROBONO)"

Chairperson: Gordana Lastovicka-Medin, University of Montenegro



AGENDA

Time slot

Speaker

Affiliation

Title

The First day/18/-6/2024

10:40-11:40h	Josef Ongena	LPP-ERM/KMS	Fusion - an important option for our future energy supply
11:40-12:40h	Alfredo Portone	Fusion for Energy	Status of ITER and TOKAMAK Research
12:40- 13:20	Sergey Pikuz	HB11 Energy	Laser Boron Fusion - HB11 Energy approach to commercial sustainable fusion energy.
13:20:14:20	Massimo Ferrario	INFN-LNF	Accelerating the Future & EuPraxia Project
14:20 – 15:30	Lunch time		
15:30h- 16:15h	Pablo Cirrone	INFN-LNS	Laser-driven ion accelerations: basic mechanism and applications
16:15h- 17:00h	Przemysław Tchoř	Institute of Plasma Physics and Laser Microfusion, Warsaw, Poland	Cavity Pressure Accelerations
17:00h- 17:30 h	Coffee break		
17:30h- 18:30h	Martin Precek	ELI ERIC, ELI Beamlines	Loquid sheet jet methods for optical and X-ray spectroscopy at ELI Beamlines

Gala Dinner: 20:00 - 01:00 Gradska Kafana, Herceg Novi

Wednesday, June 19, 2024 (Hall A – Hunguest Hotel Sun Resort) 10:30 – 12:30

Special Session: High-Intensity Laser-Plasma Particle Sources and Applications

Chairpersons: Pablo Cirrone and Daniele Margarone

10:30 - 10:45	Marine Huault,	Alpha particle production from Laser-driven proton-boron a nuclear reaction in the hole-boring scheme
10:45 – 11:10	Lorenzo Giuffrida (INVITED),	Laser Plasma Ion Acceleration for multidisciplinary applications at the ELI/MIA beamlines
11:10 – 11:35	Giada Petringa (INVITED),	Diagnostic and dosimetry with Laser-driven proton beams
11:35 – 12:00	Costanza Pancino (INVITED),	WHEE with laser-driven electron beams
12:05 – 12:30	Carmen Altana, (INVITED),	Status and perspectives of nuclear research in plasma
12:30 – 12:45	Sahar Ajmand,	Optimizing Capillary Design for Very High Energy Electrons (VHEE) Applications
12:45 - 13:00	Benoit Lefebvre,	Radiation protection at the ELI Beamlines facility

13:00 – 14:00 Round table with Daniele Margarone

15:30 – 17:30: Workshop (continuation)

15:30 - 16:15	Mateusz Rebarz	Generation and Application of ultrafast laser pulses
16:15 - 17:00		Transient Current Technique: what we can learn about particle detectors
17:00 – 17:30	Gordana Medin	Charge-density related effects in Si-based detectors with internal gain

Boat Excursion with Boat Dance Evening – Škver Harbor